

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning on page 3, line 14, and running through page 4, line 17, as follows:

Referring to Fig. 1, a tuned mass 10 is employed to reduce oscillations of a structure, "damped mass" 12, by the using six isolator struts 14 connecting the mass 10 and damped mass 12 in a hexapod or "Stewart Platform" configuration. Fig. 3 shows that each strut 14 comprises a spring 15 and dashpot 16 in parallel, which combined with the mass 10 form a TMD along the spring (strut) extension axis. Each strut has spherical joints of pivots 18. These well-known struts 14 are traditionally used as isolators for shock absorption mounts for payloads on spacecraft, one type commonly known as the D-Strut brand isolator by Honeywell International, Inc. The struts 14 have been used in a hexapod configuration for that purpose. The application and result are different in this arrangement, but with predictable or deterministic mechanics of the hexapod, each strut 14 can be tuned with the one mass 10 to reduce particular frequencies alone or in combination with one or more other struts 14. This is because each strut 14 can move independently; that is, without extending the others, only requiring rotation at each strut's pivot point 18. By way of example, the mass 10 can rotate around the pivot 18 without extending the associated strut 19, even though other struts, for instance struts 20, 21, will extend. Consequently, the attenuation for each strut can be calculated, thus making it possible to finely tune each strut by adjusting its respective spring 15 constant and location for a particular structure (damped mass 12). The one mass 10 and each strut 14 is a directional TMD, in effect, and vibrations in all six degrees of freedom, possibly differing in frequency, of damped mass 12 can be damped with a single TMD mass with predetermined inertia properties.